NOTICE OF THESIS PROPOSAL PRESENTATION
Geodesy and Geomatics Engineering
Doctor of Philosophy

Rodrigo Leandro

Tuesday, February 22, 2005
Head Hall – Room E-11 @ 12:30 pm

Supervisor: Dr. M. Santos

Supervisory Committee: Dr. R. Langley
                         Dr. D. Kim

Chair: Dr. S. Nichols

A NEW PRECISE POINT POSITIONING MODEL

ABSTRACT

Precise Point Positioning (PPP) is a single receiver positioning technique that uses precise information generated from an active network of dual-frequency receivers. The precise data used are satellite orbits and satellite clock corrections. Site displacement models are also used. Today PPP techniques provide decimeter position accuracy and several attempts have been made aiming at position accuracy improvements.

The motivation problem of this research resides on the efficiency limit of current PPP methods. The proposed research has as main objective the improvement of PPP accuracy. In order to satisfy this objective a new PPP model is being developed.

A brief explanation about what is PPP as well as what have been done in terms of scientific investigation concerning PPP techniques is provided. The thesis motivation problem, objectives and potential scientific contributions are shown. A description of the proposed model, as well as the alternatives and options that will be object of the realization of the new model are explored. Explanation about practical issues of the investigation is provided, as part of the proposal. It will be shown what has been already made and what still needs to be done, within a time calendar.

Faculty Members and Graduate Students are invited to attend the 20 minute presentation